

# THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME;

Speight Seed Farms, Inc.

Whereas, THERE HAS BEEN PRESENTED TO THE  
Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF *seventeen* YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. THE UNITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS SEEDS OF CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS SPECIFIED BY THE OWNER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

TOBACCO

'Speight G-15'

In Testimony Whereof, I have hereunto set  
my hand and caused the seal of the Plant  
Variety Protection Office to be affixed  
at the City of Washington  
this 11th day of April in  
the year of our Lord one thousand nine  
hundred and seventy-seven

Attest:

*R. D. Rollins*  
Commissioner  
Plant Variety Protection Office  
Grain Division  
Agricultural Marketing Service

*Bob Dwyer*  
Secretary of Agriculture



## APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

INSTRUCTIONS: See Reverse.

1. VARIETY NAME OR TEMPORARY DESIGNATION <b>SPEIGHT G-15</b>		2. KIND NAME <b>FLU-CURED TOBACCO</b>		FOR OFFICIAL USE ONLY PVPO NUMBER <b>7400007</b>	
3. GENUS AND SPECIES NAME <b>NICOTIANA TOBACUM</b>		4. FAMILY NAME <b>SOLANACEAL-NIGHTSHADE</b>		FILING DATE <b>8-17-73</b>	TIME <b>3:00</b> P.M.
		5. DATE OF DETERMINATION <b>DECEMBER, 1972</b>		FEE RECEIVED <b>\$750.00</b>	CHARGES _____
6. NAME OF APPLICANT(S)  <b>SPEIGHT SEED FARMS, INC.</b>		7. ADDRESS (Street and No. or R.P.D. No., City, State, and ZIP Code)  <b>ROUTE 1, P. O. BOX 507 WINTERVILLE, N. C. 28590</b>			8. TELEPHONE AREA CODE AND NUMBER  <b>(919)756-0718</b>
9. IF THE NAMED APPLICANT IS NOT A PERSON, FORM OF ORGANIZATION: (Corporation, partnership, association, etc.)  <b>CORPORATION</b>			10. STATE OF INCORPORATION  <b>NORTH CAROLINA</b>		11. DATE OF INCORPORATION  <b>1-1-72</b>

## 12. CHECK BOX BELOW FOR EACH ATTACHMENT SUBMITTED:

- ☒ 12A. Exhibit A, Origin and Breeding History of the Variety (See Section 52, P.L. 91-577)
- ☒ 12B. Exhibit B, Botanical Description of the Variety
- ☒ 12C. Exhibit C, Objective Description of the Variety
- ☒ 12D. Exhibit D, Particulars of Trial Performance
- ☒ 12E. Exhibit E, Statement of the Basis of Applicant's Ownership

The applicant declares that a viable sample of basic seed that is planted to produce the variety commercially will be deposited upon request before issuance of a certificate and will be replenished periodically in accordance with such regulations as may be applicable. (See Section 52, P.L. 91-577).

13A. Does the applicant(s) specify that seed of this variety be sold by variety name only as a class of certified seed? (See Section 142, P.L. 91-577) (If "Yes," answer 13b and 13c below.) ☒ YES ☐ NO

13B. Does the applicant(s) specify that this variety be limited as to number of generations? ☒ YES ☐ NO

13C. If "Yes" to 13B, how many generations of production beyond breeder seed? **three generations**  
**foundation, registered, certified**

14. Name and mailing address of applicant representative(s), if any, to serve in this application and receive all papers:

**M. L. Grimsley  
Speight Seed Farms, Inc.  
P. O. Box 507  
Winterville, N. C. 28590**

Applicant is informed that false representation herein can jeopardize protection and result in penalties.

The undersigned applicant(s) of this sexually-reproduced novel plant variety believes that the variety is entitled to protection under the provisions of Section 42 and is distinct, uniform, and stable as required in Section 41 of the Plant Variety Protection Act (P.L. 91-577).

8-14-73  
(DATE)

M. L. Grimsley  
(SIGNATURE OF APPLICANT)

\_\_\_\_\_  
(DATE)

\_\_\_\_\_  
(SIGNATURE OF APPLICANT)

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12-A

## Exhibit-A---ORIGIN &amp; BREEDING HISTORY OF THE VARIETY

Name: SPEIGHT G-15

Pedigree: NC-95 X G-41

letter  
2/18/77

1. In July of 1960 we crossed Fla. 222 on NC-95. The results of this cross were numbered F-12. After some years of individual plant selections from F-12 we ended up with the variety Speight G-41. This variety was released and did very well. It had the characteristics of NC-95 except that the leaves were some narrower.

2. In 1965 we crossed G-41 on NC-95. The results from this cross (G-41 X NC-95) were numbered K-15. It was grown and selected in our disease infested nursery through the fifth generation. Out of these individual plant selections came a selection numbered K-15-G, which in its sixth generation was named Speight G-15.

3. Variants during this period were mostly one off-type plant, which was a narrow stringy-type plant, that was easily selected away from. There were a few tall variants with large fan shaped leaves spaced wide apart that had to be selected out. The type we selected for was more of a Hicks or NC-2326 type plant being clean of bottom suckers and a shade lighter green in color than NC-2326 or Hicks. Leaves were some broader in the top of the plant than NC-2326 or Hicks.

4. Speight G-15 became stable in its fifth generation and was tested in the N.C. Official Variety Testing program and by Speight Seed Farms for one year before entering it into the regional small plot testing program. During the same years it was being tested on Speight Seed Farms and by some tobacco farmers in larger crops. G-15 was found to be true to type and stable in all of these tests.

Signed: M. L. Grimsley

*M. L. Grimsley*

Title: Breeder

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74-7

# Speight Seed Farms, Inc.

BREEDERS, REGISTERED AND CERTIFIED SEED

TOBACCO SEED - SOYBEANS - HYBRID CORN

BOX 507 • PHONE (919) 756-0718

WINTERVILLE, N. C. 28590

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## EXHIBIT 12 B BOTANICAL DESCRIPTION OF THE VARIETY

NAME: SPEIGHTS G-15

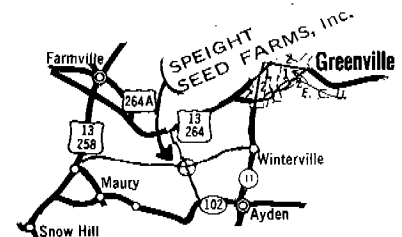
PEDIGREE: N.C. 95 x G-41

1. G-15 most closely resembles NC-95 but differs by producing approximately 1 less leaf per plant (17.2 vs 18.0). Leaves are about .3 of an inch narrower (10.7 vs 11.0 in.) Bottom leaves are slightly longer (22.2 vs 21.8 in.) Flowering and maturity dates are approximately the same. Seeds are slightly larger in size than N.C.-95.
2. Plant heights are approximately the same. Leaves grow more upright (35 to 45 degrees) and at maturity the leaves tend to hang horizontally. Speight G-15 produces less ground and axial leaf suckers. Leaves are some puckered during growing season but less puckered than N.C. 95. Flower heads are more open, but its yields are some less than N.C. 95. Leaf quality is some better, with more lemon color than N.C. 95. Black Shank and Bacterial Wilt Resistance are some higher in N.C. 95. ~~Brown~~ Brown Spot and Root Knot Tolerance are similar.

### N.C. OFFICIAL VARIETY TEST-THREE YEAR AVERAGE-1973, 1974, 1975

Variety	Yield lbs/A	Grade Index	Days to Flower	Leaves per Plant	Height p/plant	Ground suckers	B. Shank Index
NC-95	2736	48	62	18.0	42	1.2	20.2
G-15	2596	51	62	17.2	42	0.5	33.9

Variety	Width of leaf, inches			Length of Leaf, inches		
	5th Leaf	10th Leaf	15th Leaf	5th Leaf	10th Leaf	15th Leaf
NC-95	8.8	11.0	11.9	20.2	23.0	21.8
G-15	8.7	10.7	11.6	20.2	23.0	22.2



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OBJECTIVE DESCRIPTION OF VARIETY

Tobacco (*Nicotiana tabacum*)

NAME OF APPLICANT(S)

SPEIGHT SEED FARMS, Inc.

ADDRESS (Include No. or R.F.D. No., City, State, and Zip Code)

Box 507

Winterville, North Carolina 28590

VARIETY NAME OR TEMPORARY  
DESIGNATION

SPEIGHT G-15

PVP NO. NUMBER

7400007

Place the appropriate number that describes the varietal character in the boxes below.

Place a zero in first box (e.g., 089 or 09) when number is either 99 or less or 9 or less.

1. CLASS:

1 = FLUE-CURED 2 = FIRE-CURED  
7 = MISCELLANEOUS-DOMESTIC

3 = AIR-CURED 4 = CIGAR FILLER  
8 = FOREIGN-CIGAR LEAF

5 = CIGAR BINDER 6 = CIGAR WRAPPER  
9 = FOREIGN-NON-CIGAR LEAF



AIR-CURED:

1 = BURLEY

2 = MARYLAND

3 = DARK AIR-CURED

STANDARD VARIETIES

01 = NC 95

02 = NC 2326

03 = COKER 319

04 = HICKS

05 = SPEIGHT G-28

06 = SC 58

07 = Ky 151

08 = BURLEY 21

09 = BURLEY 49

10 = Ky 10

11 = MARYLAND 609

12 = Ky 165

13 = Pennbel 69

14 = HAVANA 503

15 = FLORIDA 17

16 = OTHER

2. MATURITY (Transplant to 50% plants 1 fl.) (Select code from Standard Varieties listed above)

62 NO. OF DAYS

00 DAYS EARLIER THAN ... 01

00 DAYS LATER THAN ... 01

3. SEEDING TO TRANSPLANTING (Select code from Standard Varieties listed above)

75 NO. OF DAYS

03 DAYS EARLIER THAN ... 01

00 DAYS LATER THAN ... 00

4. PLANT HEIGHT (After topping) (Select code from Standard Varieties listed above)

87 CM TALL

00 CM SHORTER THAN ... 01

00 CM TALLER THAN ... 01

5. LEAF SIZE (At leaf maturity) (Select code from Standard Varieties listed above)

513 LENGTH  
CM 5TH LEAF

584 CM 10TH LEAF

564 CM 15TH LEAF

00 CM SHORTER THAN ... 00

00 CM SHORTER THAN ... 00

00 CM SHORTER THAN ... 00

00 CM LONGER THAN ... 01

00 CM LONGER THAN ... 01

30 CM LONGER THAN ... 01

WIDTH

221 CM 5TH LEAF

272 CM 10TH LEAF

295 CM 15TH LEAF

30 CM NARROWER THAN ... 01

22 CM NARROWER THAN ... 01

07 CM NARROWER THAN ... 01

00 CM WIDER THAN ... 00

00 CM WIDER THAN ... 00

00 CM WIDER THAN ... 00

6. LEAF YIELD (Select code from Standard Varieties listed above)

2908 KG/HA

4 % LESS THAN ... 01

00 % MORE THAN ... 00

00004

## 13. DISEASE (0 = Not tested, 1 = Susceptible, 2 = Resistant)

<input type="text" value="0"/> POTATO VIRUS Y	<input type="text" value="1"/> TMV
<input type="text" value="0"/> NEMATODE ROOT ROT (LESION, SPECIES) _____	<input type="text" value="2"/> ROOT KNOT NEMATODE
<input type="text" value="0"/> TOBACCO ETCH VIRUS	<input type="text" value="0"/> OZONE AIR POLLUTION
<input type="text"/> OTHER (Specify) _____	<input type="text"/> OTHER (Specify) _____

NOTE: Under "Comments", give comparative reaction with a standard variety appropriate for each disease tested and indicate if disease reaction of the variety exceeds, equals or is less than that of the standard.

## 14. LEAF CONSTITUENTS (Give data for described and standard variety):

VARIETY	NICOTINE %	NOR NICOTINE %	TOTAL NITROGEN %	REDUCING SUGARS % (FLUE-CURED)
SUBMITTED	<input type="text" value="3.5"/> <input type="text" value="3"/>	<input type="text" value="28"/>	<input type="text" value="2"/> <input type="text" value="2"/> <input type="text" value="1"/>	<input type="text" value="1"/> <input type="text" value="4"/> <input type="text" value="3"/> <input type="text" value="6"/>
STANDARD	<input type="text" value="3"/> <input type="text" value="4"/> <input type="text" value="0"/>	<input type="text" value="27"/>	<input type="text" value="2"/> <input type="text" value="3"/> <input type="text" value="0"/>	<input type="text" value="1"/> <input type="text" value="3"/> <input type="text" value="6"/> <input type="text" value="6"/>

NAME OF  
STANDARD  
VARIETY \_\_\_\_\_

## 15. VARIETIES MOST CLOSELY RESEMBLING THAT DESCRIBED FOR THE CHARACTERS GIVEN:

CHARACTER	VARIETY	CHARACTER	VARIETY
MATURITY	NC-95	LEAF TIP SHAPE	NC-95
LEAF LENGTH	NC-95	VENATION PATTERN	NC-95
LEAF WIDTH	NC-95	LEAF SURFACE	NC-95
LEAF CARRIAGE	NC-95	LEAF MARGIN	NC-2326
PETIOLE ANGLE	NC-95	LEAF COLOR	NC-95
LEAF SHAPE	NC-95	PLANT FORM	NC-95

## 16. COMMENTS (For increasing accuracy of description)

Speight G-15 most closely resembles NC-95, but differs by producing approximately one less leaf per plant. Bottom leaves are slightly longer and narrower than NC-95. Internodes are wider and produce less ground and leaf axial suckers. Yields are lower, but leaf quality is better and has more Lemon color than NC-95.

## SUMMARY OF DISEASE RESISTANCE 1974 and 1975 Average

VARIETY	Black Shank	Root Knot	Bacterial Wilt Index	Brown Spot Index
NC-95	20.2	Res.	21	.12885
G-15	33.9(Less than)	Res.(Equal)	27(Less than)	.13887(Equal)

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WINTERVILLE, N. C. 28590

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## EXHIBIT 12 D PARTICULARS OF TRIAL PERFORMANCES OF Speight G-15

NAME: Speight G-15

PEDIGREE: NC-95xG-41

RELEASE: December 1973

Speight G-15 most closely resembles NC-95, but differs by producing approximately 1 less leaf per plant (17.2 vs 18.0), bottom leaves are slightly longer (22.2 vs 21.8). All leaves are .3 of an inch narrower (11.6 vs 11.9), and are less puckered. Internodes are wider (3.3 vs 2.7). Less ground suckers (0.5 vs 1.2). Less Leaf Axial suckers (20.8 vs 23.6). Produces lower yields (2596 vs 2736 lbs/acre), but does have Higher Quality Leaf or Grade Index (51 vs 48) Less Black Shank Resistance (33.9 vs 20.2). Flower heads are more open.

### N.C. OFFICIAL VARIETY TEST-THREE YEAR AVERAGE-1973, 1974, 1975

Variety	Yield lbs/A	Grade Index	Days to Flower	Leaves per/plant	Height of Plant	Ground Suckers	Black Shank Index
NC-95	2736	48	62	18.0	42 in.	1.2	20.2
G-15	2596	51	62	17.2	42 in.	0.5	33.9

### N.C. OFFICIAL VARIETY TEST - Three year average- 1972, 1973, 1974

		PRICE					Bacterial Wilt
NC-95	2574	\$89.17	61	17.9	41 in.	2.2	21
G-15	2390	\$89.17	61	16.5	40 in.	1.3	27
WIDTH OF LEAF in INCHES      LENGTH OF LEAF in INCHES							
	5th Leaf	10th Leaf	15th Leaf	5th Leaf	10th Leaf	15th Leaf	
NC-95	8.8	11.0	11.9	20.2	23.0	21.8	
G-15	8.7	10.7	11.6	20.2	23.0	22.2	



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74-7

# Speight Seed Farms, Inc.

BREEDERS, REGISTERED AND CERTIFIED SEED

TOBACCO SEED - SOYBEANS - HYBRID CORN

BOX 507 • PHONE (919) 756-0718

WINTERVILLE, N. C. 28590

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## EXHIBIT 12-E STATEMENT OF BASIS OF APPLICANTS OWNERSHIP

NAME:SPEIGHT G-15  
PEDIGREE:NC-95xG-41  
RELEASE:December 1973

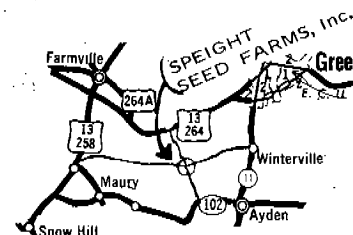
Speight Seed Farms, Inc. of Winterville, North Carolina, hereby believe that we are the first and only breeder of the tobacco variety or line, Speight G-15 and hereby solicit a Certificate of Protection.

*M. L. Grimsley*

Marcus L. Grimsley  
Plant Breeder



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GROUPING:

## STANDARD VARIETIES

01 = NC 95    02 = NC 2326    03 = COKER 319    04 = HICKS    05 = SPEIGHT G-28    06 = SC 58  
 07 = Ky 151    08 = BURLEY 21    09 = BURLEY 49    10 = Ky 10    11 = MARYLAND 609    12 = Ky 165  
 13 = Pennbel 69    14 = HAVANA 503    15 = FLORIDA 17    16 = OTHER

7. LEAF NUMBER (Select code from Standard Varieties listed above)

TOPPED NORMAL:

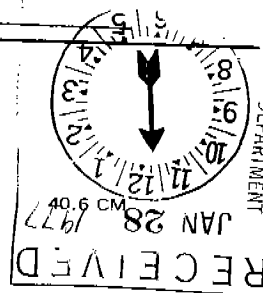
1 7 2 NO. PER PLANT

1 7 2 NO. OF LEAVES &gt; 40.6 CM

8 7 CM HEIGHT OF LAST LEAF &gt;

NOT TOPPED:

2 1 2 NO. OF LEAVES OR NODES TO "CROWFOOD" FROM 1ST HARVESTABLE LEAF



8. INTERNODES (Topped) (Select code from Standard Varieties listed above)

6 4 MM LENGTH

MM SHORTER THAN

6 MM LONGER THAN 0 1

9. LEAF CHARACTERISTICS:

PETIOLE ANGLE:

4 5 DEGREES

2 GROUPING: 1 = &lt; 35° 2 = 35-45° 3 = 46-65° 4 = &gt; 65°

LEAF CARRIAGE

3 1 = ARCHED (DROOPING) 2 = HORIZONTAL  
3 = UPRIGHT

LEAF COLOR (At topping or when 50% of plants with 1 flower)

2 1 = LIGHT GREEN 2 = GREEN 3 = DARK GREEN  
4 = YELLOW-GREEN 5 = YELLOW

LEAF SHAPE:

3 1 = BROADER THAN LONG 2 = LENGTH EQUALS WIDTH 2 1 = BROADEST AT MIDDLE 2 = BELOW MIDDLE  
3 = LONGER THAN BROAD 3 = ABOVE MIDDLE

TIP SHAPE

2 1 = ACUTE 2 = ACUMINATE 3 = OBTUSE

VENATION PATTERN:

2 1 = SQUARE 2 = ANGULAR

LEAF SURFACE

2 1 = SMOOTH (HICKS) 2 = PUCKERED (NC 95)

LEAF MARGIN

2 1 = WAVY 2 = NOT WAVY 2 1 = RECURVED  
2 = NOT RECURVED

10. FLOWERS:

2 COLOR: 1 = WHITE 2 = PINK  
3 = RED 4 = OTHER

FLOWER HEAD HABIT:

2 1 = CLOSED (NC 95) 2 = INTERMEDIATE  
3 = OPEN (HICKS)

11. PLANT FORM

2 1 = PYRAMIDAL 2 = COLUMNAR 3 = OTHER (Specify)

12. GROUND SUCKERS:

0 5 NO. PER PLANT

13. DISEASE (0 = Not tested, 1 = Susceptible, 2 = Resistant)

2 BLACK SHANK (RACES)	2 FUSARIUM WILT (NICOTIANA)
0 BLACK ROOT ROT	0 FUSARIUM WILT (BATATAS)
1 BLUE MOLD	0 FROGEYE
0 WILDFIRE (SPECIES)	BROWN SPOT Tolerant
0 BLACKFIRE	2 BACTERIAL WILT

00005